		Smart Sk	ies
		2005 Mathen	
	C	Content and Achieven	nent Standards
North Dakota Mathe	ematics		
Grade 5			
Activity/Lesson	State	Standards	
			Determine the characteristics of, and the
			relationships among, points, lines, line
Fly by Math	ND	MA.5.5.2.5	segments, rays, and planes
			Make predictions and draw conclusions based
Fly by Math	ND	MA.5.5.3.6	on data collected from a sample group
			Measure and apply elapsed time; i.e., time
Fly by Math	ND	MA.5.5.4.2	zones, schedules, and calendars
			Determine the characteristics of, and the
			relationships among, points, lines, line
Line Up with Math	ND	MA.5.5.2.5	segments, rays, and planes
 			Measure and apply elapsed time; i.e., time
Line Up with Math	ND	MA.5.5.4.2	zones, schedules, and calendars
		Smart Sk	ine
		2005 Mathen	
		Content and Achieven	
North Dakota Mathe		Jonitoni ana Admeven	Tient Otanida di
Grade 6	inatios		
Activity/Lesson	State	Standards	
/ totivity/ Locoon	Otato	- Staridar do	Collect and organize data, select and use an
			appropriate display; i.e., a frequency table, a line
Fly by Math	ND	MA.6.6.3.1	and bar graph
			Recognize examples of change over time; e.g.,
Line Up with Math	ND	MA.6.6.5.4	growth of a sixth grader from September to May
		Smart Ski	
		2005 Mathen	
N. (1 D. 1 (N. (1		Content and Achieven	nent Standards
North Dakota Mathe	ematics		
Grade 7	State	Standards	
Activity/Lesson	State	Stanuarus	Formulate a guestion; collect organize, and
Ely by Math	ND	MA.7.7.3.1	Formulate a question; collect, organize, and display data using a bar, line, and circle graph
Fly by Math	ואט	IVIA.1.1.3.1	Graph change over time; e.g., growth, distance,
Line Up with Math	ND	MA.7.7.5.6	population
Line Op with Math	IND	IVIA.1.1.5.0	population
		Smart Ski	ies
		2005 Mathen	
	C	Content and Achieven	nent Standards
North Dakota Mathe			
Grade 8			
Activity/Lesson	State	Standards	
			Collect, organize, and display data using scatter
Fly by Math	ND	MA.8.8.3.2	and stem-and-leaf plot

Fly by Math	ND	MA.8.8.5.6	Solve problems involving rates; i.e., speed equals distance divided by time (miles per hour)
. , .,		111111111111111111111111111111111111111	- quant measures and an a first time (mass per measure)
			Solve problems involving rates; i.e., speed
Line Up with Math	ND	MA.8.8.5.6	equals distance divided by time (miles per hour)
		Own and Ob	lan de la companya de
		Smart Sk 2005 Mathen	
	(Content and Achiever	
North Dakota Mathe			Tion Gundards
Grades 9-10			
Activity/Lesson	State	Standards	
			Use distance, midpoint, and slope to determine
			relationships between points, lines, and plane
			figures in the Cartesian coordinate system; e.g.,
			determine whether a triangle is scalene,
	ND	MA.9-10.9-	isosceles, or equilateral given the coordinates of
Fly by Math	ND	10.2.6	its vertices
			Construct appropriate displays of given data; i.e., circle graphs, bar graphs, histograms, stem-
		MA.9-10.9-	and-leaf plots, box-and-whisker plots, and
Fly by Math	ND	10.3.1	scatter plots
I ly by watt	110	10.0.1	Interpret a given visual representation (i.e.,
			circle graphs, bar graphs, histograms, stem-and-
		MA.9-10.9-	leaf plots, box-and-whisker plots, and scatter
Fly by Math	ND	10.3.2	plots) of a set of data
			Use algebraic expressions, equations, or
			inequalities involving one or two variables to
			represent relationships (e.g., given a verbal
			statement, write an equivalent algebraic
			expression or equation) found in various
Ch. b. Math	ND	MA.9-10.9-	contexts (e.g., time and distance problems,
Fly by Math	ND	10.5.7 MA.9-10.9-	mixture problems)
Fly by Math	ND	10.5.13	Interpret a graphical representation of a real- world situation
I IY DY IVIALII	IND	10.5.15	Analyze the effects of multiplication, division,
			raising to a power, and extracting a root on the
			magnitudes of quantities; e.g., when will the
			square root of a number be greater than the
			number itself, or what will happen to the
		MA.9-10.9-	magnitude of a number when you multiply it by a
Line Up with Math	ND	10.1.6	negative number?
		MA.9-10.9-	Use Cartesian coordinates to determine
Line Up with Math	ND	10.2.5	distance, midpoint, and slope
			Use distance, midpoint, and slope to determine
			relationships between points, lines, and plane
			figures in the Cartesian coordinate system; e.g.,
		MA 0 10 0	determine whether a triangle is scalene,
Line Up with Math	ND	MA.9-10.9- 10.2.6	isosceles, or equilateral given the coordinates of its vertices
Line Op with Math	IND	10.2.0	III ACI III CO

		MA.9-10.9-	Describe the effects of scalar change on the area and volume of a figure; e.g., the effect of doubling one or more edges of a solid on its
Line Up with Math	ND	10.4.2	surface area and volume
			Employ estimation techniques to evaluate
		MA.9-10.9-	reasonableness of results in measurement
Line Up with Math	ND	10.4.6	situations
			Use algebraic expressions, equations, or inequalities involving one or two variables to represent relationships (e.g., given a verbal statement, write an equivalent algebraic expression or equation) found in various
		MA.9-10.9-	contexts (e.g., time and distance problems,
Line Up with Math	ND	10.5.7	mixture problems)